

cc: Lynn

Western Clay Company  
PO Box 127  
Aurora, UT 84620

Lynn Kunzler  
State of Utah  
Department of Natural Resources  
Division of Oil, Gas & Mining

Re: Western Clay Bentonite Pits Sevier County M/S/041/012

Dear Mr. Kunzler

Enclosed is a list of changes we are proposing for our current mining and reclamation plan, approved March 28, 2002.

We are proposing an additional seven and eighty five one hundredths (7.85) acres to the thirty three and twenty four one hundredths (33.24) acres already approved. Expanding two of our pits, one the North Slope by two and thirty four one hundredths (2.34) acres and second the South Sheep Trail by five and fifty one one hundredths (5.51) acres.

The operation and the reclamation of the propose acreage will be the same as the original pits.

I have also enclose maps, reclamation treatments, and pictures of the current vegetation on the propose expansion acreage.

Sincerely,



Corey Thurston

RECEIVED  
MAY 26 2006  
DIV. OF OIL, GAS & MINING

## Application for Mineral Mine Plan Revision or Amendment

Operator: <u>Western Clay Company</u>	
Mine Name: <u>Redmond Bentonite Pit</u>	File Number: <u>M/5/041 /012</u>

Provide a detailed listing of all changes to the mining and reclamation plan that will be required as a result of this change. Individually list all maps and drawings that are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise or amend the existing Mining and Reclamation Plan. Include page, section and drawing numbers as part of the description.

DETAILED SCHEDULE OF CHANGES TO THE MINING AND RECLAMATION PLAN			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Page 3, 111. Increase disturbed Acreage from 3324 to 441.09
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 5, South Sheep Trail map, Proposed Expansion 5.5 Acres
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 5, North Slope map, Proposed Expansion 2.34 Acres
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 6, Reclamation Treatment So. Sheep Trail Pit Area
<input type="checkbox"/> ADD	<input checked="" type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 6, Reclamation Treatment No. Slope Pit Area
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7, Pit Cross Section So. Sheep Trail Flat
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 7, Pit Cross Section North Slope
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 8, Current Vegetation Expansion So. Sheep Trail
<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	Appendix 8, Current Vegetation Expansion North Slope
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	
<input type="checkbox"/> ADD	<input type="checkbox"/> REPLACE	<input type="checkbox"/> REMOVE	

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments and obligations, herein.

Corey Thurston  
Print Name

Corey Thurston Mine Supervisor  
Sign Name, Position  
Date 5-19-06

**Return to:**

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
Phone: (801) 538-5291 Fax: (801) 359-3940

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<b>FOR DOGM USE ONLY:</b>
File #: <u>M/</u> <u>1</u>
Approved: <u>11-8-06</u>
Bond Adjustment: from (\$)
to \$ <u>137,900</u>

## **INSTRUCTIONS to REVISE or AMEND MINING OPERATIONS NOTICE OF INTENTION**

When an operator intends to revise or amend a mining operation, a **notice** to Amend or Revise the mining and reclamation plan **must be submitted** to the Division **and approved prior to creating any disturbance beyond what has already been approved**. The notice must include all information, concerning the revision or amendment, that would have been required if it had been included in the original Notice of Intention (NOI).

**"REVISION"** means a **significant change** to the approved Notice of Intention to Conduct Mining Operations, which will increase the amount of land affected or alter the location and type of onsite surface facilities such that the nature of the reclamation plan will differ substantially from the approved Notice of Intention. Revisions require a formal public notice of tentative approval and may require a change in the amount of reclamation surety.

**"AMENDMENT"** is an **insignificant change** to the approved Notice of Intention. An amendment requires Division approval, but does not require public notice.

The Division will determine whether a request for change is significant or insignificant on an individual case-by-case basis.

### **Instructions:**

- Changes to the mining and reclamation plan are made by providing a completely new plan or by adding, replacing, or removing pages to the current plan. Detailed instructions for adding or replacing pages and maps must be included (please identify on the attached form MR-REV-att).
- Text changes should be shown in a redline/strikeout format.
- The amended application should be accompanied by a cover letter: referring to the permit number, operator name and mine; describing the contents; and referencing any Division action that initiated the change (i.e. Notice of Violation, previous review, Division Order).
- The submitted revision or amendment must be complete and should not rely on additional materials that will be submitted at a later date.
- Form MR-REV-att, or equivalent, must be submitted with the application for change.

After the Division conditionally approves the change, two clean copies will be requested which will be stamped "approved" and one copy returned for your copy of the mining and reclamation plan. The change is now approved and you may proceed with your plans.



**Identify any changes this modification will have to:**

**I. General Information (R647-4-104)**

- Location of Proposed Activities:
- COUNTY
- TOWNSHIP, RANGE, SECTION(S) (Identify to 1/4, 1/4 section)

**Ownership of Land Surface:**

- Private (Fee) - Identify Owners Name(s)
- State of Utah (SITLA) lands, Public Domain BLM, National Forest (USFS)

**Ownership of Minerals:**

- Private (Fee) - Identify Owners Name(s)
- State of Utah (SITLA) lands, Public Domain BLM, National Forest (USFS)
- **BLM Lease or Project File Number(s) and/or USFS assigned Project Number(s)**
- **Utah State Lease Numbers(s)**

**II. MAPS, DRAWINGS & PHOTOGRAPHS (Rule R647-4-105)**

Appropriate maps, drawings, plates, etc. should be provided that are pertinent to the revision, or amendment of mining operations. Please provide a revised map outlining the previously approved and the new proposed disturbed area boundaries. These materials should be prepared according to the requirements of Rule R647-4-105.

**III. OPERATION PLAN (Rule R647-4-106)**

All appropriate information requirements outlined under Rule R647-4-106 must be addressed in the application. Identify additional proposed surface disturbance. Include the total number of acres to be affected by the revision or amendment.

**IV. IMPACT ASSESSMENT (Rule R647-4-109)**

Provide information required under Rule R647-4-109 regarding projected potential surface and/or subsurface impacts that may be associated with the proposed change(s) in mining operations.

**V. RECLAMATION PLAN (Rule R647-4-110)**

Outline any proposed changes to the originally approved reclamation plan. Address all appropriate sections of Rule R647-4-110 as they apply to the proposed change(s) in mining operations.

**VI. VARIANCE (Rule R647-4-112)**

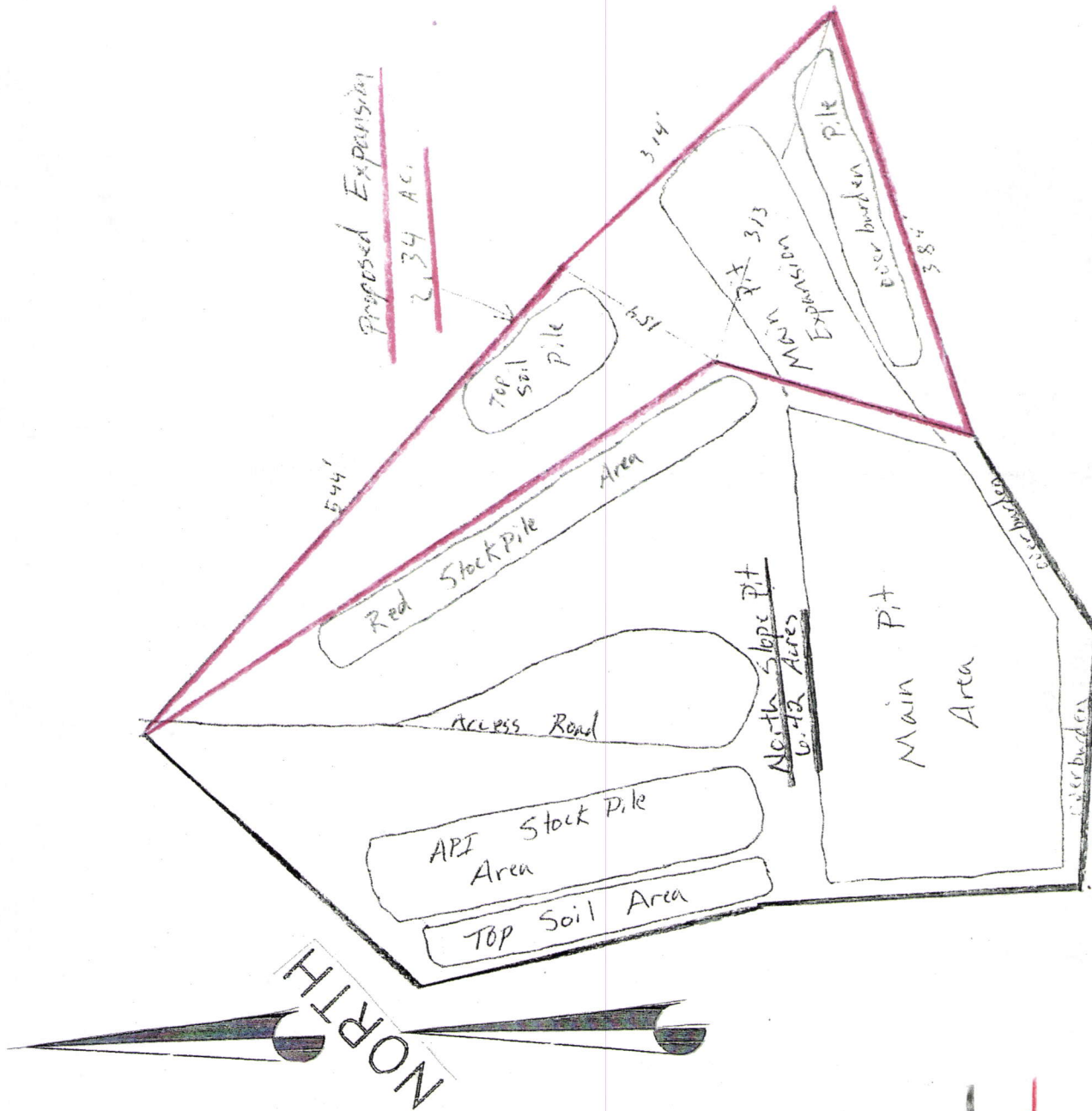
Identify any requests for variance from the requirements of rules R647-4-107, -108, or -111. A narrative justification and alternate methods or mitigating measures must be included for each variance request.

**VII. SURETY (Rule 647-4-113)**

**Reclamation Surety:**

Indicate whether the proposed activities will change the amount of work required to reclaim the mine site. If significant changes will result, then an itemized reclamation cost estimate should be provided (and attached) with direct reference to the specifics of the proposed change(s). This information will be used to assist the Division in determining any reclamation surety adjustments required for the operation.

# North Slope



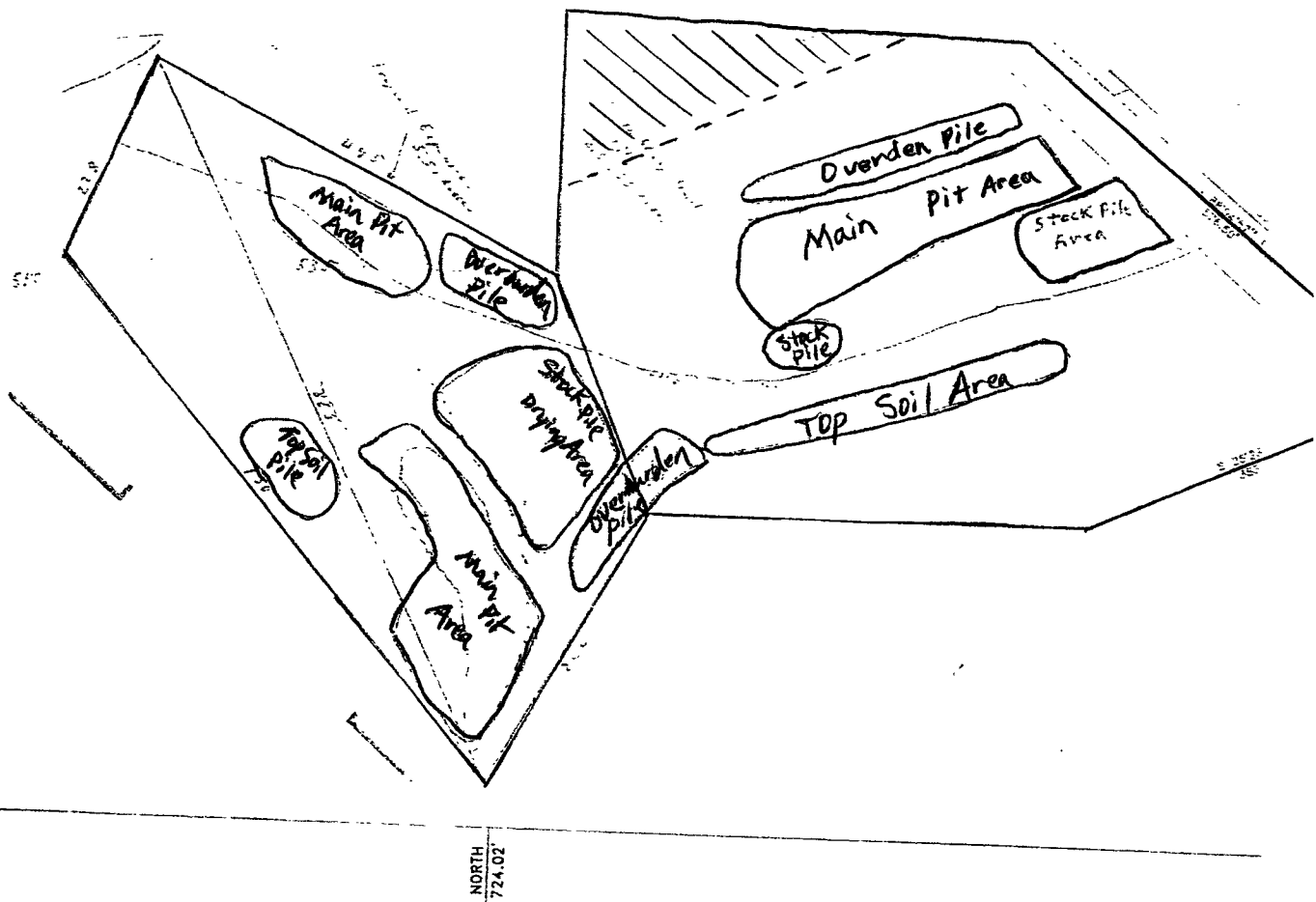
6.42 Acres Original Area

2.34 Proposed Expansion



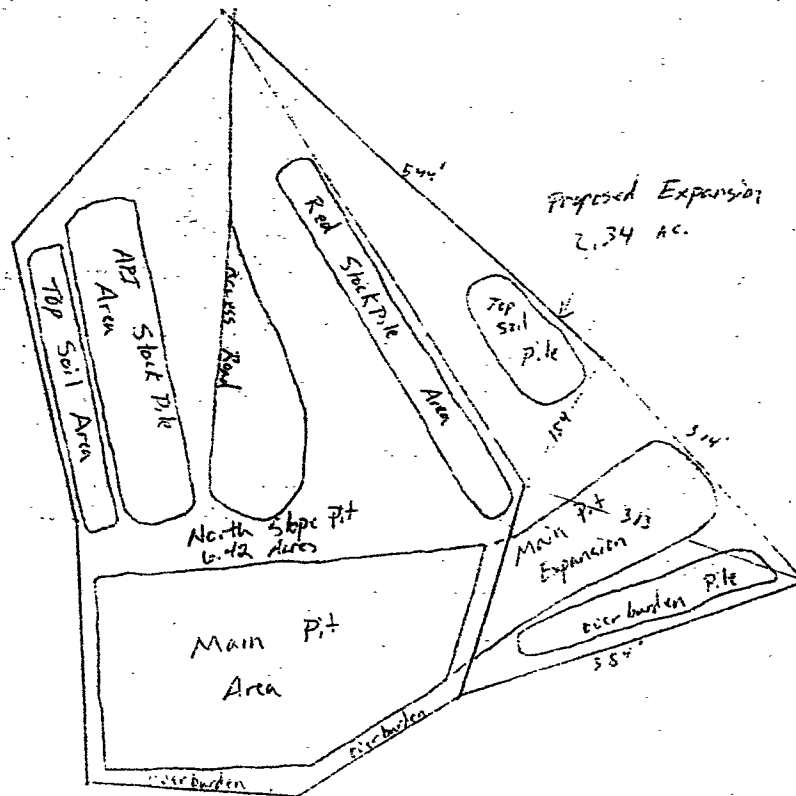
### 5.51 Proposed Expansion

.73 Will Remain Undisturbed



### Reclamation Treatments-South Sheep Trail Pit Area

- Bentonite stockpiles will be removed and/or used as fill for the pit area.
- Pit area slopes will be graded to a stable configuration.
- Overburden will be used to cover disturbed area and/or as fill for the pit area slopes.
- Catch basin will be breached to allow drainage.
- Roadway will be disced and roughened to match total reclaimed area.
- All pit areas will be treated as follows:
  1. Soil surface will be disced and pitted to roughen soil surface so there are small pits to catch precipitation.
  2. Seed will be broadcast according to D.O.G.M. recommendations. Recommendations from the original L.O.I. were for; Fourwing Saltbrush at 4 lbs per acre, Rabbitbrush at 4 lbs per acre, Shadsale at 4 lbs per acre, Crested Wheatgrass at 5 lbs per acre, and Indian Ricegrass at 3 lbs per acre for a total of 20 lbs per acre.
  3. Seed will be lightly harrowed or raked into the soil 1/4" to 1/2".
  4. Appropriate fertilizer will be applied based on D.O.G.M. recommendations. The recommendation in the original N.O.I. was for Diammonium Phosphate at 200 lbs per acre. It has also been suggested that manure may need to be used to allow for prolonged plant nutrient benefit.
- All equipment and foreign matter will be removed from the site.



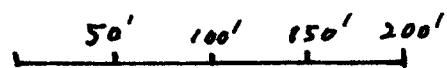
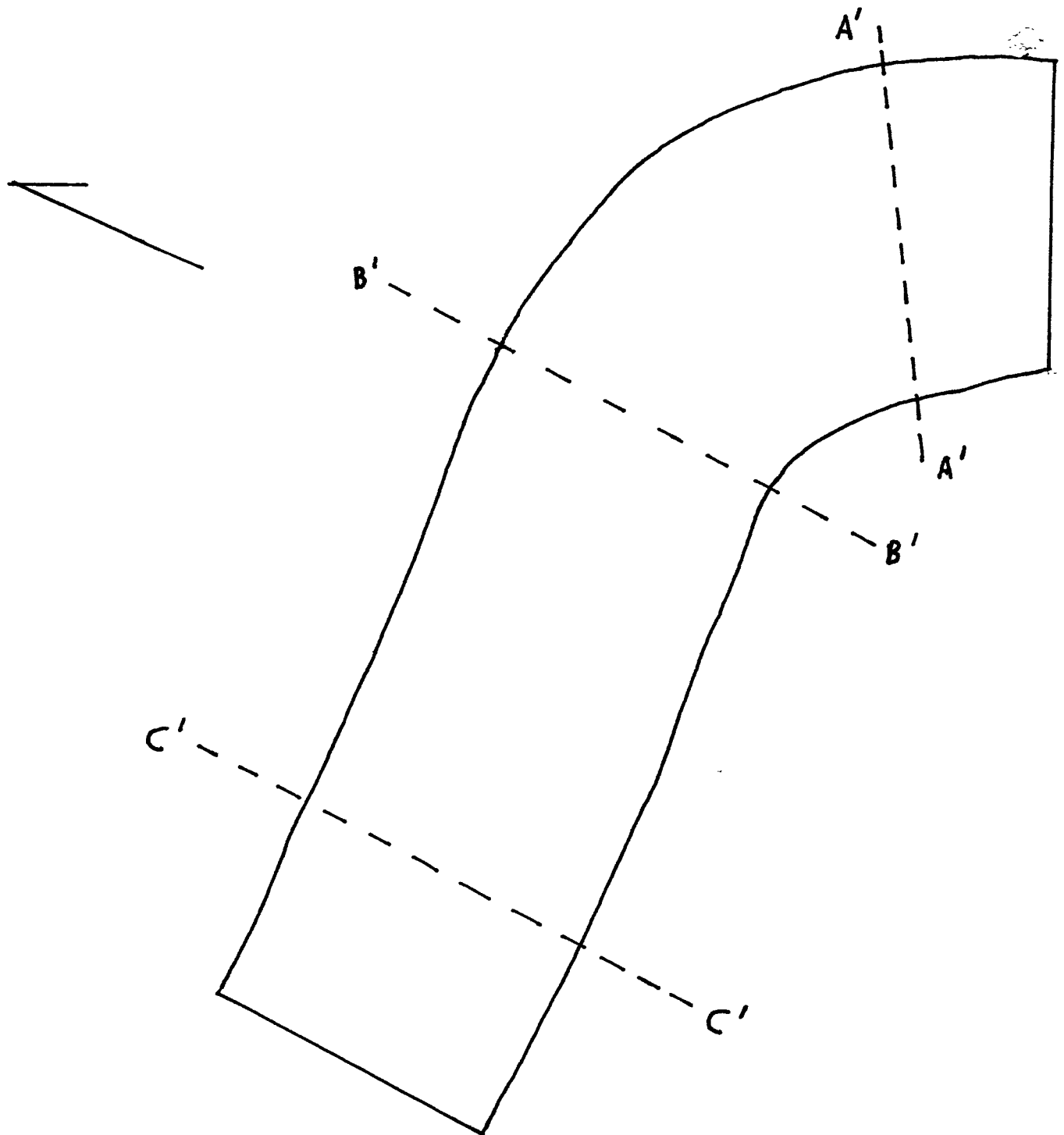
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- Overburden will be used to cover disturbed area and/or as fill for the pit area slopes.
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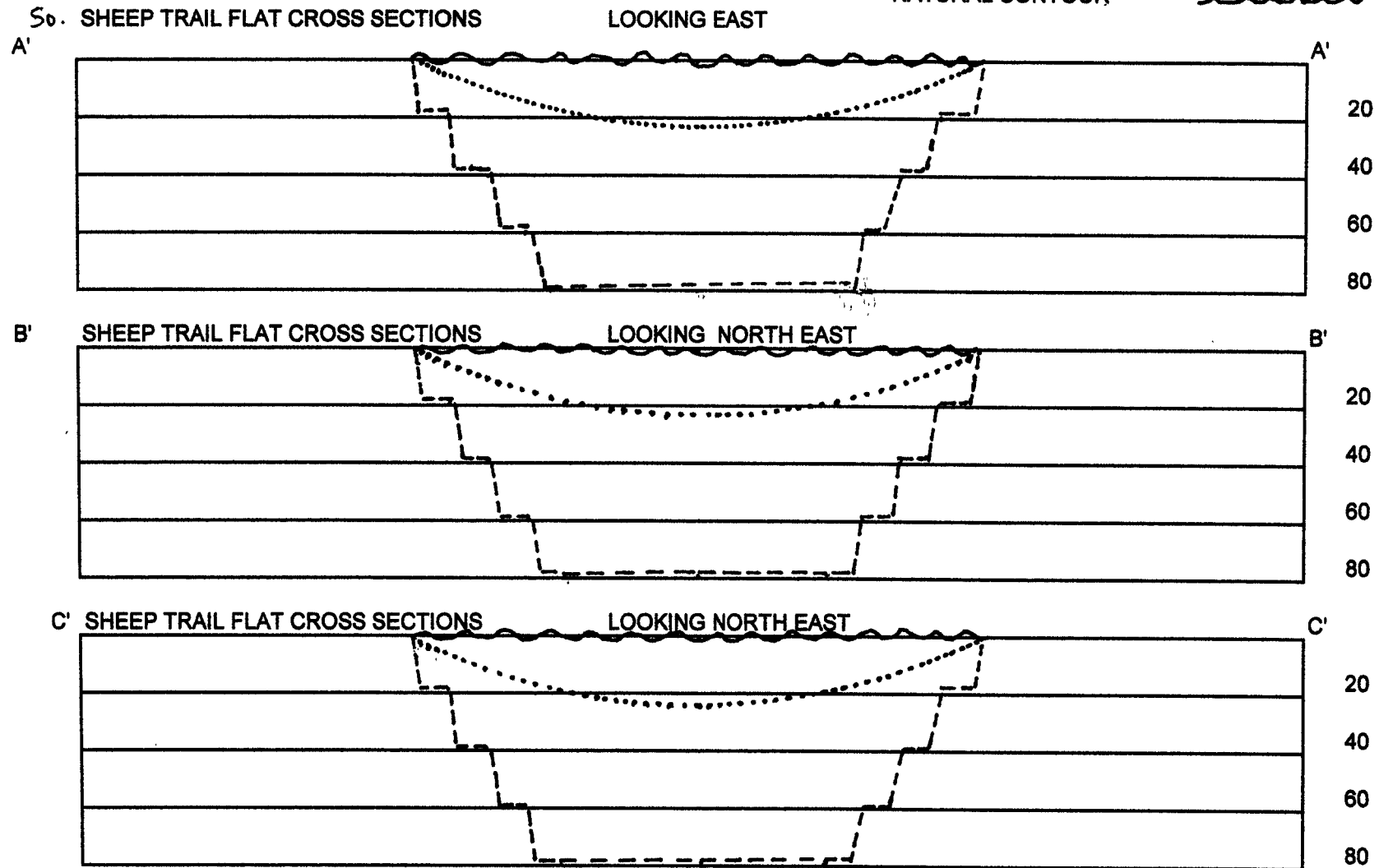
S0. SHEEP TRAIL FLAT  
5/10/06

CURRENT MINE AREA NONE  
PROPOSED MINE AREA \_\_\_\_\_  
CROSS SECTIONS - - - - -



5/10/06

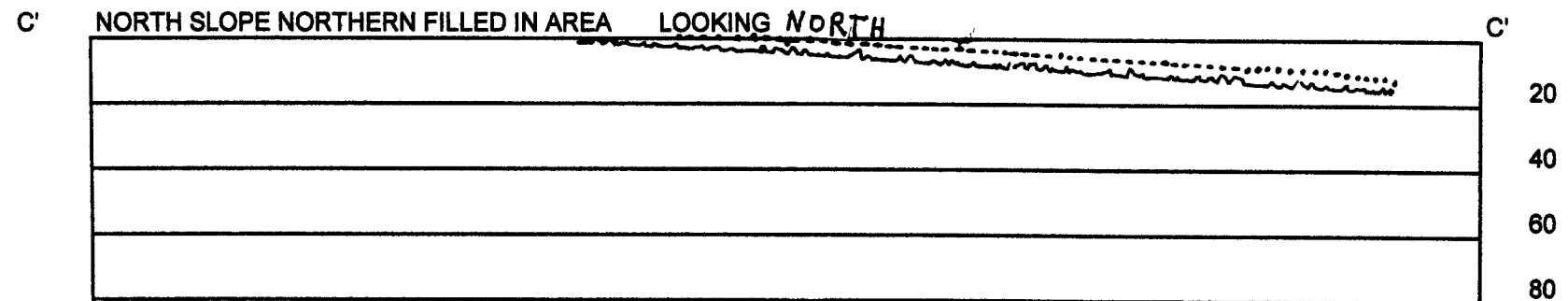
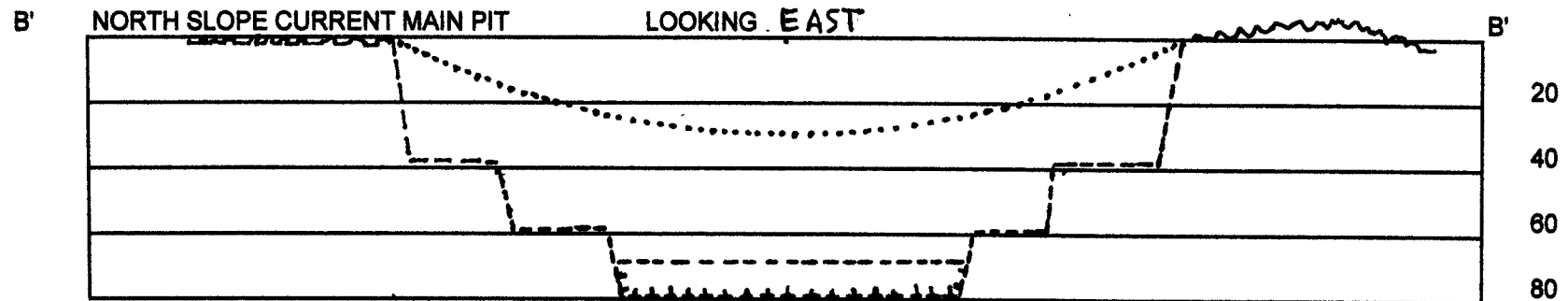
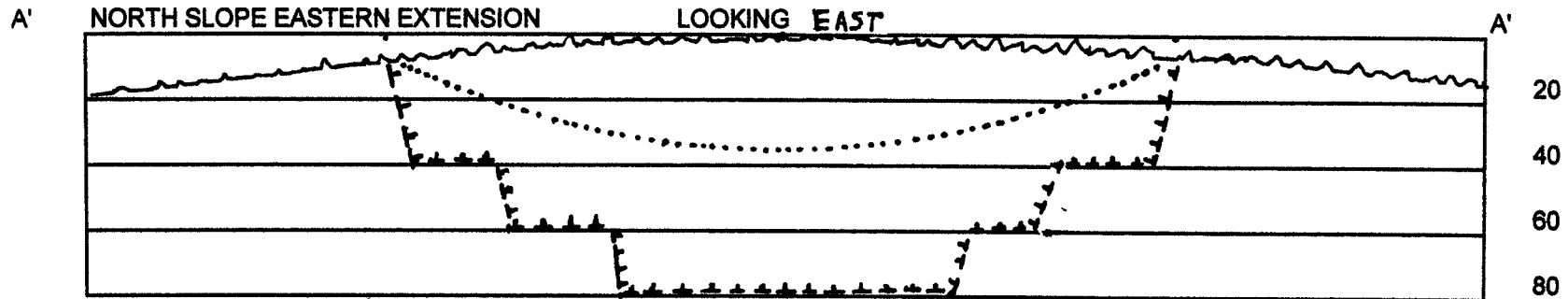
CURRENT MINE PROFILE    ~~~~~  
PROPOSED MINE PROFILE    - - - - -  
PROPOSED RECLAMATION    .....  
NATURAL CONTOUR        ~~~~~



5/10/06  
NORTH SLOPE MINE

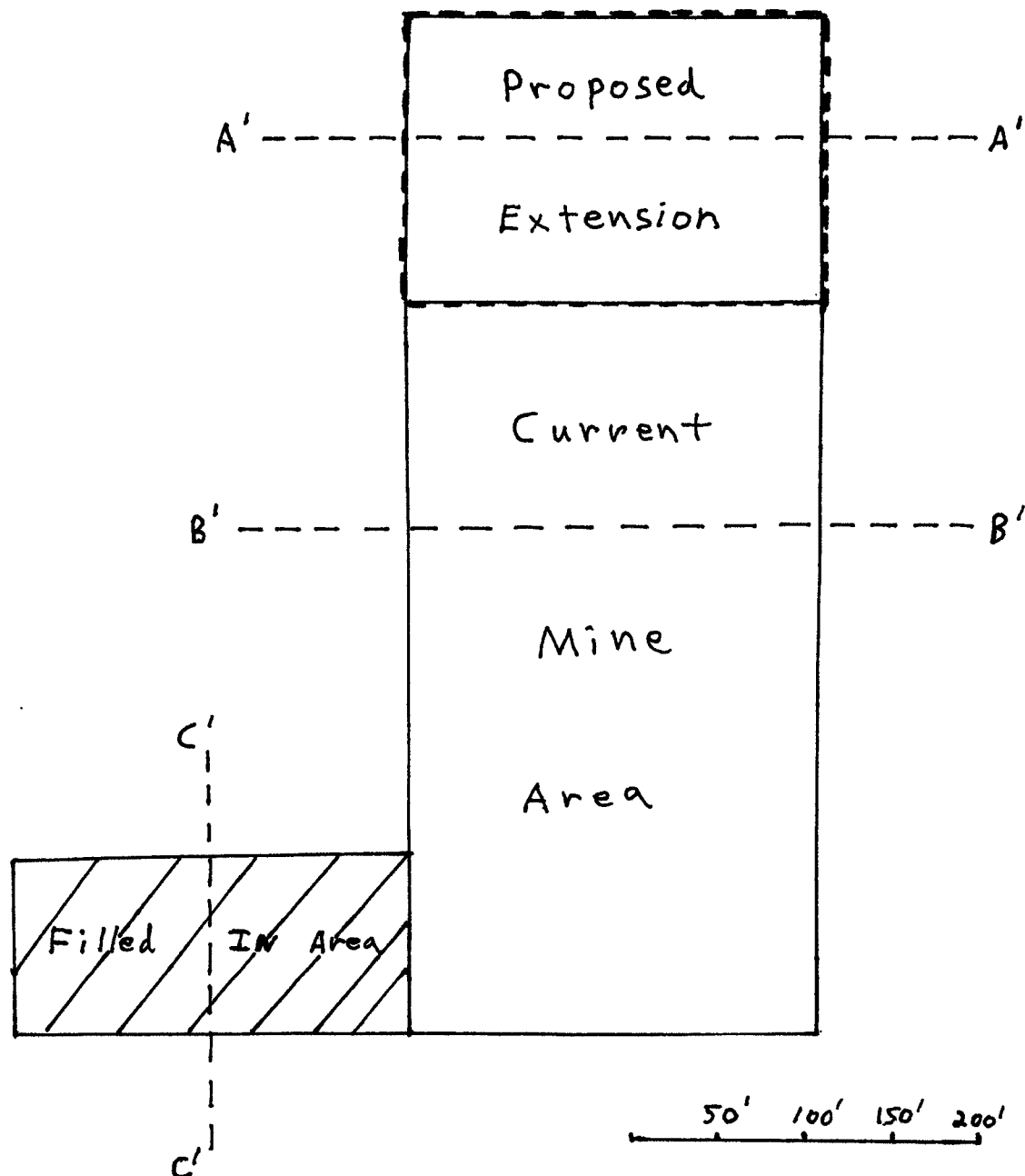
CURRENT MINE PROFILE - - - - -  
PROPOSED MINE PROFILE ▲ ▲ ▲ ▲ ▲  
PROPOSED RECLAMATION .....  
NATURAL CONTOUR ~~~~~

SCALE 1" = 10'



NORTH SLOPE  
5/10/06

CURRENT MINE AREA      
PROPOSED MINE AREA      
CROSS SECTIONS        





# South Sheep Trail Expansion





North Slope Expansion

